

# How Bosch technology makes batteries safer

Lithium-ion batteries are complex, finely tuned systems with a high energy content. Their contents can, in principle, be flammable in certain conditions. This is why all eBike batteries undergo extensive testing and may only be launched on the market once they've passed these tests.

Bosch eBike Systems goes above and beyond the strict legal requirements, with certain tests, and pays special attention to battery safety throughout the entire value chain. For peace of mind, the entire Bosch eBike system is certified to UL 2849, which is a standard covering the electrical system of eBikes powered by a lithium-based, rechargeable battery. UL 2849 has strict requirements for electrical shock, mechanical and fire hazards. Additionally, the high-quality lithium-ion batteries have a Battery Management System (BMS) that detects significant potential sources of error and effectively protects cells against overheating.



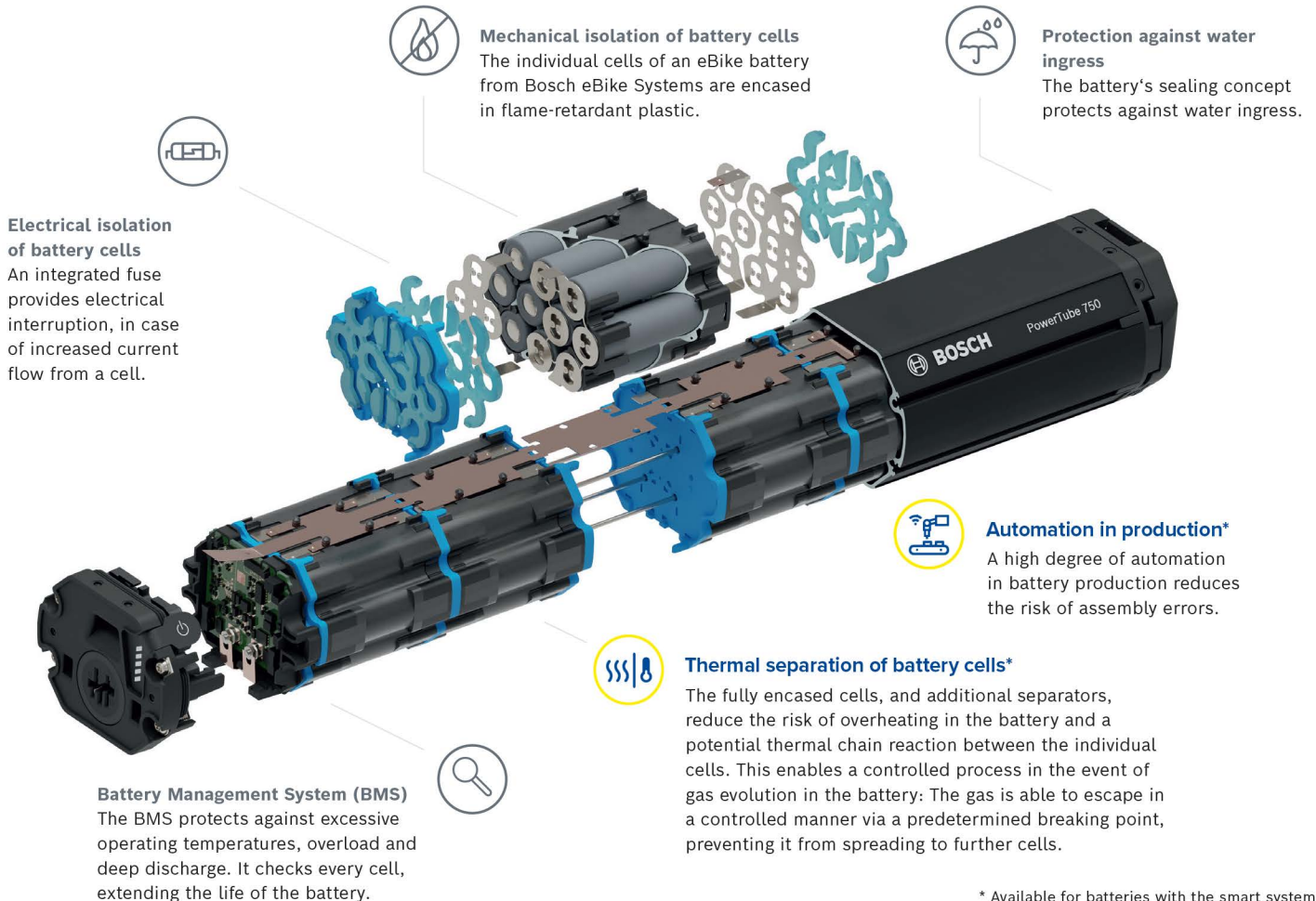
## Safety measures for all batteries from Bosch eBike Systems

- ▶ Mechanical isolation of battery cells
- ▶ Electrical isolation of battery cells
- ▶ Protection against water ingress

## Batteries with the smart system:

### Additional standards. Increased safety. More tests.

- ▶ Automation in production
- ▶ Thermal separation of battery cells



\* Available for batteries with the smart system